

Preface

The annual conference of the European Association for Computer Science Logic, CSL 2003, was held jointly with the 8th Kurt Gödel Colloquium, 8. KGC, at the Vienna University of Technology on 25–30 August 2003.

The conference series CSL started as a program of international workshops on Computer Science Logic, and then in its sixth meeting became the annual conference of the EACSL. This conference was the 17th meeting and 12th EACSL conference.

The KGC is the biennial conference of the Kurt Gödel Society. It has taken place in various formats and has been devoted to special topics in logic, such as computational logic, set theory, algebraic logic, and history of logic.

The CSL 2003 and 8. KGC were organized by the Kurt Gödel Society jointly with the Institut für Algebra und Computermathematik and the Institut für Computersprachen, Vienna University of Technology.

The CSL 2003 and 8. KGC joint program committee had the difficult task of choosing among 112 mostly high-quality submissions. Each paper was refereed by at least two reviewers and then discussed by the whole program committee. In the final stage, during a three day electronic discussion, the program committee selected 39 papers for presentation at the conference and publication in these proceedings. Unfortunately, many high-quality papers had to be rejected due to the limitations set by the conference duration.

The program committee chose as invited speakers Bruno Buchberger, Dov Gabbay, Helmut Veith, Nikolai Vorobjov, and Andrei Voronkov. Additionally, Sergei Artemov was invited jointly by CSL 2003 and 8. KGC and the European Summer School in Logic Language and Information (ESLLI 2003) for the key note address of both events.

In addition to the main conference program, CSL 2003 and 8. KGC featured four tutorials given by Ahmed Bouajjani (*Verification of Infinite State Systems*), Georg Moser and Richard Zach (*The Epsilon Calculus*), Nikolai Vorobjov (*Effective Quantifier Elimination over Real Closed Fields*), Igor Walukiewicz (*Winning Strategies and Synthesis of Controllers*).

The last day of CSL 2003 and 8. KGC was jointly held with the 2nd annual workshop of the European Research Training Network GAMES (Games and Automata for Synthesis and Validation), organized by Erich Grädel.

We thank the program committee and all the referees for the work in reviewing the papers. We are grateful to Norbert Preining for taking care of the main organizational tasks and we thank the remaining members of the local organizing team, Arnold Beckmann, Agata Ciabattoni, Christian Fermüller, Rosalie Iemhoff, and Sebastiaan Terwijn.

We would like to thank the following institutions for supporting the meeting: the European Association for Computer Science Logic (EACSL), the Austrian Federal Ministry for Education, Science and Culture, the City Council of Vienna, the Vienna University of Technology, and the companies IBM and Siemens.

June 2003

Matthias Baaz and Johann Makowsky

Program Committee

Matthias Baaz *Vienna University of Technology (Chair)*
 Arnold Beckmann *Vienna University of Technology*
 Lev Beklemishev *Steklov Institute, Moscow/Utrecht Univ.*
 Agata Ciabattoni *Vienna University of Technology*
 Kousha Etessami *University of Edinburgh*
 Chris Fermüller *Vienna University of Technology*
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 Harald Ganzinger *Max Plank Institut Saarbrücken*
 Erich Grädel *Aachen University*
 Petr Hajek *Czech Academy of Science*
 Martin Hyland *University of Cambridge*
 Reinhard Kahle *Universidade Nova de Lisboa*
 Helene Kirchner *LORIA CNRS, Nancy*
 Daniel Leivant *Indiana University Bloomington*
 Johann Makowsky *Technion-IIT Haifa (Co-chair)*
 Jerzy Marcinkowski *Wroclaw University*
 Franco Montagna *University of Siena*
 Robert Nieuwenhuis *Tech. Univ. Catalonia Barcelona*
 Michel Parigot *CNRS University of Paris 7*
 Jeff Paris *Manchester University*
 Helmut Schwichtenberg *Munich University*
 Jerzy Tiuryn *Warsaw University*

Additional Referees

Klaus Aehlig	Veronique Cortier	Hugo Herbelin
José Alferes	Victor Dalmau	M. Hermann
Rajeev Alur	Rod Downey	William Hesse
Carlos Areces	Jacques Duparc	Wim Hesselinx
Albert Atserias	Roy Dyckhoff	Pascal Hitzler
Ralph Back	Mauro Ferrari	Michael Huth
Ulrich Berger	N. Francez	Rosalie Iemhoff
Dietmar Berwanger	Carsten Führmann	Neill Immerman
Lars Birkedal	Brunella Gerla	Mark Jerrum
Bruno Blanchet	Silvio Ghilardi	Felix Joachimski
Steve Bloch	Patrice Godefroid	Marcin Jurdzinski
Stefano Borgo	Rajeev Gore	Hans Jürgen Ohlbach
Glen Bruns	Bernhard Gramlich	Lukasz Kaiser
Marco Cadoli	Martin Grohe	Michael Kohlhase
Witold Charatonik	O. Grumberg	Boris Konev
Petr Cintula	Therese Hardin	Jan Krajčec
Horatiu Cirstea	Jerry den Hartog	Lars Kristiansen

Jean-Louis Krivine	Virgile Mogbil	Harold Simmons
Orna Kupferman	Tobias Niopkow	Alex Simpson
Dietrich Kuske	Hans de Nivelles	V. Sofronie-Stokkermans
Oliver Kutz	Damian Niwinski	V. Stoltenberg-Hansen
Olivier Laurent	Gethin Norman	Martin Strecker
Salvatore La Torre	Jean-Marc Notin	Thomas Streicher
Martin Lange	Pawel Olszta	Wieslaw Szwest
Dominique Larchey	V. van Oostrom	Lidia Tendera
Alexander Leitsch	Fernando Orejas	Wolfgang Thomas
Pierre Lescanne	Geoffrey Ostrin	Alwen Tiu
Luigi Liquori	Martin Otto	Jacobo Toran
Christof Loeding	J. van de Pol	Christian Urban
Markus Lohrey	Chris Pollett	Alvaro del Val
Byron Long	Christophe Raffalli	Helmut Veith
Carsten Lutz	Alexander Rabinovich	Laurent Vigneron
P. Madhusudan	E. Ravve	Albert Visser
Savi Maharaj	Maarten de Rijke	Peter Vojtas
Yevginiy Makarov	Christophe Ringeissen	Benjamin Werner
Jean-Yves Marion	Philipp Rohde	Uwe Waldmann
Narciso Marti-Oliet	Marie-Christine Rousset	I. Walukiewicz
Maarten Marx	Paul Roziere	Heinrich Wansing
K. Meer	V. Rybakov	Andreas Weiermann
Daniel Mery	Luigi Santocanale	ToMasz Wierzbicki
Stephan Merz	Renate Schmidt	Lucian Wischik
George Metcalfe	Manfred Schmidt-Schauß	Alberto Zanardo
Dale Miller	Peter Selinger	Jeffrey Zucker
Oskar Mis	Kurt Sieber	

Local Organizing Committee

Matthias Baaz, Chair
Arnold Beckmann
Agata Ciabattoni
Christian Fermüller
Rosalie Iemhoff
Norbert Preining
Sebastian Terwijn